



Source
The soundings on this map were principally assembled from compilations made since 1949 by the following organizations:
Columbia University, Department of Geological Sciences—Lamont-Doherty Geological Observatory (initiated in 1949 with the support of the Office of Naval Research); includes principally precision depth soundings by research vessels.
Department of Defense, Defense Mapping Agency Hydrographic Center—US Naval Oceanographic Office (organized on 4-1-51); includes principally precision depth soundings by research vessels.
University of California, Scripps Institution of Oceanography (initiated in 1950 with the support of the Office of Naval Research); includes principally precision soundings by research vessels.

Contours
Soundings from listed sources were contoured at publication scale using a plate-tectonics working hypothesis and bathymetric trends derived from both magnetic anomalies and fracture zone lineations. Vessel tracks are indicated by numerical values in the units and the vessel and voyage number are shown at an extremity of each track. Approximate depths of contours in meters can be determined from the conversion table.

Conversion Table	
Fathoms	Meters
200	370
400	730
600	1115
800	1490
1000	1865
1200	2235
1400	2605
1600	2975
1800	3345
2000	3715
2200	4085
2400	4455
2600	4825
2800	5195
3000	5565
3200	5935

BATHYMETRIC AND NODULE ASSESSMENT MAP, 1203N, NORTHEAST EQUATORIAL PACIFIC OCEAN

Contour data assembled, evaluated, and interpreted by Bruce C. Heezen and Marie Tharp assisted by S. Blythe, R. Bodnar, R. Brunke, D. Jicha, H. Jicha, T. Kaul, M. McClellan, and F. Rosselot, Lamont-Doherty Geological Observatory, Department of Geological Sciences, Columbia University, Palisades, NY 10964
Nodule data from the Scripps Institution of Oceanography Sediment Data Bank, compiled by Jane Z. Frazer and Mary B. Fisk, Scripps Institution of Oceanography, University of California, La Jolla, CA 92093

1.65(2) + Nodules present and averaged combined copper and nickel content in weight percent. Total number of analyses averaged shown in parentheses.
4-1228 + Nodules present but no reported analyses.
Size of photograph showing bottom coverage by ferromanganese nodules, research vessel, and cruise number. Photograph available from Lamont-Doherty Geological Observatory.
Coverage: 1, 0-25%; 2, 25-50%; 3, 51-75%; and 4, 76-100%.
Research vessels:
M. R/V Mount Wave, University of Hawaii
O. R/V Oceanographer, National Oceanographic and Atmospheric Agency
C. R/V Robert Conrad, Lamont-Doherty Geological Observatory
V. R/V Verna, Lamont-Doherty Geological Observatory
■ No nodules reported in samples or in photographs.

120° W	119° W	118° W	117° W	116° W	115° W	114° W	113° W	112° W	111° W	110° W
1204 N	1204 N	1204 N	1204 N	1204 N	1204 N	1204 N	1204 N	1204 N	1204 N	1204 N
1203 N	1203 N	1203 N	1203 N	1203 N	1203 N	1203 N	1203 N	1203 N	1203 N	1203 N
1202 N	1202 N	1202 N	1202 N	1202 N	1202 N	1202 N	1202 N	1202 N	1202 N	1202 N

INDEX TO 1:1,000,000 SCALE BASE MAPS FOR
MINERAL ASSESSMENT